

MF/HF DSC TERMINAL

Models **DSC-6/6A**



- Distress and safety communications
- Fast and efficient routine communications
- 24-character x 2-line LCD display backlit for nighttime use
- File editing capability for readiness in emergency
- Automatic entry of own ship position (nav option) with manual override
- Scanning of DSC frequencies for distress and general calls on MF/HF
- Semi-automatic/Automatic telephone service
- Options:
Printer PP-500/510, Distress Message controller DMC-5 for centralized control/monitoring distress alarms

The Digital Selective Calling (DSC) system is one of the essential elements of the GMDSS, the automated digital communication system developed by the International Maritime Organisation (IMO) to enhance navigational safety. The DSC system can also be used to quickly and efficiently establish routine communications with other ships and coast stations that are DSC equipped.

The DSC-6/6A both consist of a combined encoder and decoder for generating and receiving digital selective calls. When used in conjunction with a FURUNO MF/HF transmitter/receiver they provide full automatic control of transmit and receive frequency, class of emission, and other parameters as entered from the front panel or contained in the telecommand information in an

incoming call. They also allow scanning of distress or routine DSC frequencies via an appropriate FURUNO receiver.

In an emergency the DSC-6/6A transmits a distress alert via the radio equipment five seconds after pressing the [DISTRESS] button. When the DSC Watch Receiver AA-50 is connected, the DSC-6 processes the messages received on the MF/HF DSC distress and safety frequencies.

The DSC-6A incorporates an independent receiver which keeps a continuous watch on MF DSC frequency 2187.5 kHz.

SPECIFICATIONS OF DSC-6/6A

GENERAL CHARACTERISTICS

1. Rules and Regulations

CCIR Rec. 493 (Class A), 541
IMO Res. A609 (15), CEPT TR/34-01

2. Distress Call and Message

Distress Call and Message (RR3112: Format specifier (distress), Self-ID, Nature of distress, Distress coordinates, Time, Telecommand, EOS, ECC)

3. Class of Emission

DSC: F1B/J2B (J2B w/FS-1562)
Voice: J3E, H3E (2182 kHz)
TTY: F1B/J2B (J2B w/FS-1562)

4. Manual Setting or Scan of Distress Frequencies

MF/HF DSC:
2187.5, 4207.5, 6312, 8414.5, 12577, 16804.5 kHz
Corresponding MF/HF NBDP (not scanned):
2174.5, 4177.5, 6268, 8376.5, 12520, 16695 kHz
TP: 2182, 4125, 6215, 8291, 12290, 16420 kHz

5. Message Storage

Receive:
50 distress messages max. plus 50 non-distress messages
Transmit:
50 non-distress messages plus 99 files containing station ID, telephone no., frequency, etc.

6. Nav Data

IEC61162

7. Alarms

Aural and visual on receipt of distress, urgency or general calls

8. Display

24 characters x 2 lines
Character composition: 5 x 7 dots
LCD with adjustable backlighting

9. Modulator and Demodulator

Level: -30 dBm to +10 dBm at 600 ohms, balanced
Frequency: Mark 1615 Hz, Space 1785 Hz, 100 baud
Stability: ± 0.5 Hz

RECEIVER CHARACTERISTICS OF DSC-6A

Receive Frequency: 2187.5 kHz
Sensitivity: Error rate 1 % at 0 dB μ V

POWER SUPPLY

10.8 - 40.0 VDC, 15 W
115/230 VAC thru AC/DC changeover supply

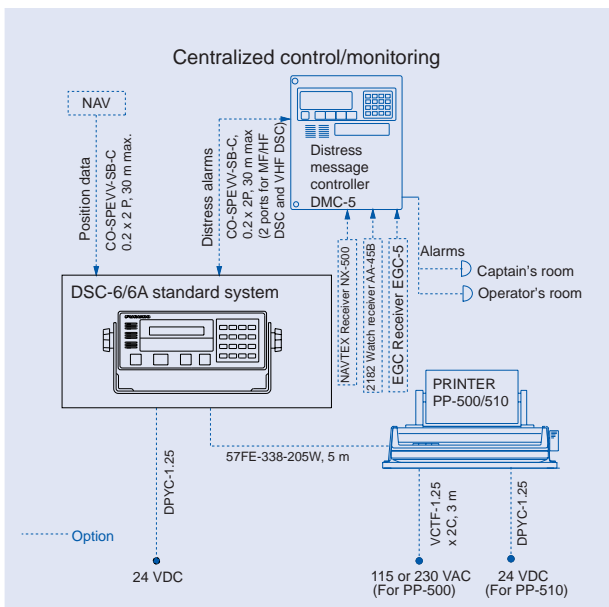
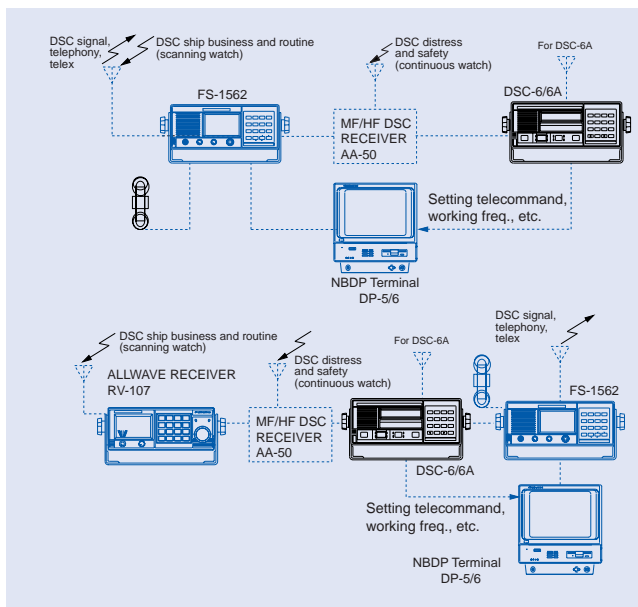
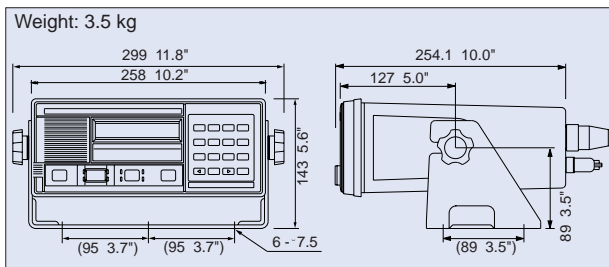
EQUIPMENT LIST

Standard

1. DSC terminal
2. Installation materials and spare parts

Optional

1. Mounting bracket
2. Printer PP-500



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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